

App #: 10-708515

EAST SEARCH HISTORY

Databases: US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB

Ref#	Hits	Search Text
S1	1	10/708515
S2	3	circuit and photomask and (bisector or "bi-sector") and voronoi
S3	20	circuit and (bisector or "bi-sector") and voronoi
S4	4	circuit and photomask and voronoi
S5	273	circuit and voronoi
S6	172	circuit and voronoi and segment\$6
S7	53	S6 and @pd<"20030309"
S8	1200	(382/187).CCLS.
S10	72	sub-resolution assist feature
S11	62	S10 and circuit
S9	2	S8 and voronoi
S12	144	("sub-resolution assist feature" or SRAF) and circuit
S13	3	S12 and voronoi
S15	18	("5229255" "5242770" "5256505" "5288569" "5324600" "5362584" "5424154" "5436095" "5447810" "5538815" "5663893" "5698347" "5707765" "5723233" "5821014" "5827623" "6114071" "6114095").PN.
S16	0	S15 and sraf
S17	7	(US-20040068712-\$ or US-20020001758-\$).did. or (US-5491641-\$ or US-5880970-\$ or US-6178539-\$ or US-6317859-\$ or US-6335130-\$).did.
S18	1	S17 and sraf
S22	4	("5773315" "5777901" "6044208" "6066179").PN.
S14	14	S12 and @pd<"20030309"
S19	3	S17 and (sraf or "sub-resolution assist")
S20	8	S12 and @pd<"20040309" not S14
S21	4	S6 and @pd<"20040309" not S7
S24	58	photomask and (sraf or "sub-resolution assist feature")
S23	2	("7200835").PN.
S30	171	circuit and photomask and ((scatter\$3 or intensity or assist) adj2 bars)
S36	1	("6178539").PN.
S43	57	((scatter\$3 or intensity or assist) adj2 bars) same remov\$3
S46	34	circuit and (((scatter\$3 or intensity or assist) adj2 bars) same contact\$3)
S28	1	circuit and photomask and (scatter\$3 adj bars) and voronoi
S25	9	(US-20040068712-\$ or US-20020001758-\$ or US-20040005089-\$).did. or (US-6317859-\$ or US-6178539-\$ or US-5491641-\$ or US-5880970-\$ or US-6541167-\$ or US-6335130-\$).did.
S35	41	circuit and ((scatter\$3 or intensity or assist) adj2 bars) and (vertices or vertex)
S31	60	S30 and @pd<"20040309"
S34	94	S33 and @pd<"20040309"
S29	1	circuit and photomask and ((scatter\$3 or intensity or assist) adj2 bars) and voronoi
S27	1	S26 and voronoi
S50	76	circuit and ((SRAF or "assist features") same (extend\$3 or connect\$3 or lengthen or widen or broaden or enlarge))
S26	5	S25 and photomask and circuit and ("assist feature" or sraf)
S33	225	circuit and ((scatter\$3 or intensity or assist) adj2 bars) and (vertic\$2 or vertex)

S45 5 circuit and (((scatter\$3 or intensity or assist) adj2 bars) same expand\$3)
S48 66342 (GORDON adj RONALD) or (LVOV adj ALEXEY) or (MANSFIELD adj SCOTT) or
(MUKERJEE adj MAHARAJ) or (PAPADOPOLOU adj EVANTHIA) or ("INTERNATIONAL
BUSINESS MACHINES CORPORATION" or IBM).asnm.
S44 2 ("6838212").PN.
S47 6 circuit and (((scatter\$3 or intensity or assist) adj2 bars) same (lengthen or widen or broaden or
enlarge))
S41 4 circuit and (((scatter\$3 or intensity or assist) adj2 bars) same connect)
S49 7 S48 and (photomask and circuit and (((scatter\$3 or intensity or assist) adj2 bars) or SRAF or "assist
features")).clm.
S42 104 (((scatter\$3 or intensity or assist) adj2 bars) same connect\$3)
S32 2 ("6114071").PN.
S40 3 circuit and (((scatter\$3 or intensity or assist) adj2 bars) same extend\$3 same connect)
S38 37 circuit and (((scatter\$3 or intensity or assist) adj2 bars) same extend\$3)
S39 10 ("5663893" | "5682323" | "5705301" | "5707765" | "5821014" | "6139994" | "6175953" |
"6210841" | "6413683" | "6453457").PN.
S37 4 ("5773315" | "5777901" | "6044208" | "6066179").PN.
S52 18 ("5663893" or "5821014" or "6413683" or "6425117" or "6523162" or "6602728" or
"20020045106" or "20020192575" or "20030061592").pn.
S53 22 S51 or S52
S51 4 10/338575 or "10/378579"

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GOOGLE SCHOLAR SEARCH

sraf -patent circuit
"sub-resolution assist feature" -patent
"sub-resolution assist feature" -patent circuit
"sub-resolution assist feature" circuit
"sub-resolution assist feature" -patent
"sub-resolution assist feature"
sraf -patent circuit voronoi
sraf -patent voronoi
voronoi -patent circuit
voronoi -patent circuit photomask